WHAT IS CLAIMED IS:

1. An optical pick-up apparatus for recording and reproducing information by radiating first or second laser lights onto first and second discs, respectively, the first disc for recording and reproducing information using the first laser light, the second disc for recording and reproducing information using the second laser light having a band of wavelengths different from that of the first laser light, comprising:

a first liquid crystal display for correcting spherical aberration by acting on the first laser light;

a second liquid crystal display for correcting coma aberration by acting on the second laser light having a polarization direction perpendicular to that of the first laser light; and

an object lens;

wherein the first and second liquid crystal displays and the object lens are movably supported.

2. The optical pick-up apparatus according to claim 1, wherein:

the first liquid crystal display and the second liquid crystal display are respectively formed on each surface of a first transparent substrate;

the first liquid crystal display at least comprising a first transparent electrode, first orientation films, a liquid crystal and a second transparent electrode, which are inserted between a second transparent substrate and the first transparent substrate to correct spherical aberration;

the second liquid crystal display is formed on a second surface of the first transparent substrate, the

second liquid crystal display at least comprising a third transparent electrode, second orientation films, a liquid crystal and a fourth transparent electrode, which are inserted between a third transparent substrate and the first transparent substrate to correct coma aberration; and

the first and third transparent electrodes are each formed of a plurality of electrodes, one or more pairs of electrodes being electrically connected to each other, one of the electrodes being the first transparent electrode, another of the electrodes being the third transparent electrode, and the second transparent electrode is electrically connected to the fourth transparent electrode.

3. The optical pick-up apparatus according to claim 2, wherein the object lens and the first and second liquid crystal displays are movably supported by a plurality of the suspension wires.

4. The optical pick-up apparatus according to claim 3, wherein a drive voltage is supplied to the transparent electrodes through the suspension wires.

5. The optical pick-up apparatus according to claim 1, wherein the object lens and the first and second liquid crystal displays are movably supported by a plurality of the suspension wires.

6. The optical pick-up apparatus according to claim 5, wherein a drive voltage is supplied to the transparent electrodes through the suspension wires.